Re-evaluation Note REV2018-06

Pest Management Regulatory Agency Re-evaluation and Special Review Work Plan 2018-2023

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Background

The purpose of this document is to inform registrants, pesticide regulatory officials and the Canadian public of the re-evaluation and special review work planned by Health Canada's Pest Management Regulatory Agency (PMRA) from 1 April 2018 to 31 March 2023. This work plan includes, all ongoing re-evaluations and special reviews as well as new re-evaluations expected to be initiated in this time frame. This document replaces the previous Pest Management Regulatory Agency Re-evaluation and Special Review Work Plan 2017-2022.

The PMRA regulates pesticides in Canada, with the primary objective of protecting the health of Canadians and the environment. A pesticide may only be sold or used in Canada if it has been registered or otherwise authorized under authority of the *Pest Control Products Act*. The PMRA uses a rigorous science-based risk assessment approach to ensure that the product meets health and environmental standards and has value.

As part of the post-market program, registered pesticides are re-evaluated on a cyclical basis using modern assessment techniques and current scientific information. In addition, pesticides may also be re-evaluated as a result of changes in the information required or the procedures used by the PMRA to determine that the pesticide meets current health, environment and value standards. A special review may also be initiated at any time if there are reasonable grounds to believe that the health or environmental risks, or the value, of a pesticide is no longer acceptable. Special reviews differ from re-evaluation in that a special review is intended to examine only specific aspects of a pesticide.

The PMRA publishes all post-market proposed decisions for public consultation. Following consultation, comments and information submitted by the public and other stakeholders are considered before the PMRA issues a final decision. Stakeholders are encouraged to become aware of upcoming consultations, as well as new initiations, for active ingredients. All published documents related to re-evaluations and special reviews are available on the Pesticides and Pest Management portion of Canada.ca.

This five-year work plan may change in response to workload and to emerging issues that require priority action; thus, while this work plan will be updated annually, during the course of the year interested stakeholders can monitor the PMRA's Public Registry to view the announcement of new re-evaluations and special reviews, as well as the publication of proposed and final decisions.

Current Re-evaluation Work Plan

In developing the work plan, the PMRA has taken a risk-based approach to prioritize re-evaluations and special reviews where potential risk issues have been identified. Re-evaluations of older pesticide active ingredients registered before 1995, as well as special reviews initiated in 2013, have been prioritized to be completed by 2020. The anticipated publication dates outlined in the work plan represent the most up-to-date information on the status of the re-evaluation or special review. The work plan for the post-market reviews related to pesticide active ingredients registered before 1995, cyclical active ingredients and special reviews are included in Tables 1-6.

The PMRA currently has several post-market reviews ongoing related to the neonicotinoid pesticides imidacloprid, clothianidin and thiamethoxam. All three active ingredients are currently under general re-evaluation as well as separate targeted re-evaluations related specifically to effects on pollinators. In addition to the re-evaluations, special reviews are underway for all three chemicals related to effects on squash bees. Further, an additional two special reviews are underway for clothianidin and thiamethoxam related to effects on aquatic organisms. The combined work plan for the neonicotinoid post-market reviews is provided in Table 7 and 8.

Table 1 Anticipated Date of Public Consultation for Active Ingredients Registered Before 1995

Active Ingredient Name	Date of Consultation
Chlorothalonil (paints, coatings and related uses)	December 2019
Chlorpyrifos	November 2018
Dazomet (paints, coatings and related uses)	December 2019
Folpet (paints, coatings and related uses)	December 2019
Piperonyl butoxide	September 2018
Pyrethrins	August 2019
Strychnine	August 2018
Triforine	March 2019
Ziram (paints, coatings and related uses)	December 2019

Table 2 Anticipated Date of Final Decision for Active Ingredients Registered Before 1995

Active Ingredient Name	Date of Final Decision
2,4-DB	March 2020
2,4-DB (2-ETHYLHEXYL ESTER)	March 2020
Acephate	October 2018
Captan	May 2018
Chloropicrin	September 2018
Chlorothalonil	May 2018
Cypermethrin	May 2018
Dazomet	March 2019
Deltamethrin	June 2018
Dichlorvos	September 2019
Ethephon	December 2019
Ferbam	August 2018
Folpet	December 2019
Iprodione	June 2018
Linuron	December 2019
Mancozeb	June 2018
Metam Potassium	October 2018
Metam Sodium	October 2018
Metiram	June 2018

Active Ingredient Name	Date of Final Decision
N-octyl bicyclo heptene dicarboximide	June 2019
Permethrin	June 2019
Phosmet	December 2018
Sodium bromide	March 2019
Thiophanate methyl	December 2018
Thiram	August 2018
Ziram	August 2018

Table 3 Anticipated Date of Public Consultation for Cyclical Active Ingredients

Active Ingredient Name	Re-evaluation Category	Date
1- or 3-monomethylol-5,5-dimethylhydantoin	1	August 2019
1,3-Bis(Hydroxymethyl)-5,5-Dimethylhydantoin	1	August 2019
Abamectin	1	July 2019
Azoxystrobin	1	November 2019
Chlorimuron-ethyl	1	June 2018
Clodinafop propargyl	1	June 2018
Copper (Present As Cuprous Thiocyanate)	2	August 2018
Cymoxanil	1	November 2019
Cyprodinil	1	April 2019
Cyromazine	1	June 2019
Difenoconazole	2	June 2019
Difethialone	3	February 2019
Dimethomorph	1	March 2019
Dodecylguanidine Hydrochloride	1	September 2019
Fenhexamid	1	October 2019
Ferrous sulfate	3	March 2019
Florasulam	1	January 2020
Flucarbazone (Present As Flucarbazone-Sodium)	1	March 2020
Flufenacet	1	December 2019
Fomesafen	1	July 2018
Isoxaflutole	1	May 2019
Kresoxim-Methyl	1	April 2019
Mineral Spirits	1	June 2019
Pyriproxyfen	1	July 2019
Quizalofop-P-Ethyl	1	June 2019
S-Kinoprene	1	December 2019
S-Metolachlor And R-Enantiomer	1	March 2020
Sodium Omadine (paints, coatings and related uses)	1	December 2019
Spinosad	1	January 2020
Streptomyces Griseoviridis Strain K61	3	December 2018

Active Ingredient Name	Re-evaluation Category	Date
Tebuconazole	2	November 2018
Tebufenozide	1	February 2019
Triticonazole	1	July 2020
Uniconazole-P	2	August 2019
Zoxamide	1	May 2020
d-cis,trans-Allethrin	Re-evaluations recently initiated by the PMRA. The PMRA is currently reviewing the active ingredients to determine the re-evaluation category. The next update to this work plan will include the anticipated date of public consultation for these active ingredients.	
p-Menthane-3,8-diol		
Trinexapac-ethyl		

Table 4 Anticipated Date of Final Decision for Cyclical Active Ingredients

Active Ingredient Name	Re-evaluation Category	Date
(Z,Z)-3,13-Octadecadienyl Acetate	3	March 2019
Acetic Acid	3	May 2018
Aminoethoxyvinylglycine	3	June 2018
Azadirachtin	3	March 2019
Camphor Oil	3	July 2019
Cydia Pomonella Granulosis Virus (Strain Cmgv4)	3	March 2019
Cyfluthrin	1	September 2018
Diflufenzopyr (Present As Sodium Salt)	3	April 2018
Ethyl Alcohol	3	November 2018
Eucalyptous Oil	3	July 2019
Fluroxypyr (present as 1-methylheptyl ester)	3	January 2019
Fosetyl-Al	1	September 2019
Hydrogen Peroxide	3	April 2018
Iron (Present As Ferric Phosphate)	3	July 2018
Isopropyl Alcohol	3	May 2018
Lambda-cyhalothrin	1	March 2019
Lemon Oil	3	July 2019
Methyl Anthranilate	3	February 2019
Oil Of Black Pepper	3	June 2019
Oil of Geranium	3	July 2019
Peroxyacetic Acid	3	April 2018
Pine Needle Oil	3	July 2019
Piperine	3	June 2019
Pyridaben	1	September 2018
Soybean Oil	3	January 2019

Active Ingredient Name	Re-evaluation Category	Date
Trichoderma Harzianum Strain Krl-Ag2	3	May 2019
Zinc (Present As Zinc Oxide)	3	August 2018

Table 5 Anticipated Date of Public Consultation for Special Reviews

Active Ingredient Name	Date
Atrazine	November 2019
Bromoxynil	January 2019
Diodofon	December 2019
Linuron	Feb 2020
Naled	November 2018
Naled	November 2018
Pentachlorophenol	September 2018
Pymetrozine	December 2019
Tetrachlorvinphos	September 2018

Table 6 Anticipated Date of Final Decision for Special Reviews

Active Ingredient Name	Date
Acephate	January 2019
Dichlorvos	November 2019
Fluopicolide	March 2019
Hexazinone	October 2018

Table 7 Anticipated Date of Public Consultation for Neonicotinoid Active Ingredients

Active Ingredient Name	Date
Clothianidin (General re-evaluation)	December 2019
Clothianidin (Special review aquatic invertebrates)	July 2018
Clothianidin (Special review squash bees)	December 2018
Imidacloprid (Pollinator re-evaluation)	May 2018
Imidacloprid (Special Review squash bees)	December 2018
Thiamethoxam (General re-evaluation)	December 2019
Thiamethoxam (Special review aquatic invertebrates)	July 2018
Thiamethoxam (Special review squash bees)	December 2018

Table 8 Anticipated Date of Final Decision for Neonicotinoid Active Ingredients

Active Ingredient Name	Date
Clothianidin (Pollinator re-evaluation)	December 2018
Imidacloprid (General re-evaluation)	December 2018
Thiamethoxam (Pollinator re-evaluation)	December 2018

New Re-evaluation Initiations

The initiation date of the re-evaluation of a particular active ingredient is generally based on the date of its initial registration, or the date of the last completed re-evaluation. A complete list of all re-evaluations anticipated between April 2018 and March 2023 is included in Table 9. When these re-evaluations are initiated a notice will be posted to the PMRA's Public Registry.

Table 9 Re-evaluations to be Initiated Between 1 April 2018 and 31 March 2023

Active Ingredient
2018-2019
(E,Z)-3,13-Octadecadienyl acetate
Acetamiprid
DEET plus related active toluamides
Fenbuconazole
Picolinafen
Propetamphos
Pymetrozine
Pyraclostrobin
2019-2020
(E,Z)-9-Dodecenyl acetate
(Z)-9-Dodecenyl acetate
(Z)-9-Tricosene
1-Dodecanol
1-Tetradecanol
4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone
Ancymidol
Boscalid
Brassica Hirta White Mustard Seed Powder
Codlelure
Corn Gluten Meal
Dried Blood
Famoxadone
Fenamidone
Fluazinam
Foramsulfuron
Imiprothrin
Iodosulfuron-methyl-sodium
Mecoprop P-isomer (present as acid)
Methyl Bromide
Octadec-9-enoic acid, ethyl ester
Octadec-9-enoic acid, methyl ester

Active Ingredient
Prallethrin
Sodium Alpha-olefin sulfonate
Trifloxystrobin
2020-2021
1,2-Dibromo-2,4-dicyanobutane
10,10'-Oxybis(phenoxarsine)
1-Methylcyclopropene
2-Bromo-4'-hydroxyacetophenone
4-Nitro-3-(trifluoromethyl) phenol sodium salt
Available chlorine, present as lithium hypochlorite
Bacillus Subtilis (Strain MBI600)
Bensulide
Bifenazate
Capsaicin
Chondrostereum Purpureum (Strain: PFC2139)
Copper (present as cuprous oxide, cupric oxide, metallic copper)
Coumaphos
Daminozide
Etofenprox
Hydramethylnon
Ipconazole
Kaolin
Mecoprop-P (present as dimethylamine salt)
Mecoprop-P (present as potassium salt)
Mesotrione
Methoxyfenozide
Methyl Nonyl Ketone
Niclosamide
Phorate
Potassium salts of fatty acids
Related Capsaicinoids
Silica aerogel
Silicon Dioxide (Present As 100% Diatomaceous Earth) - Fresh Water Fossils
Silicon Dioxide (Present As 100% Diatomaceous Earth) - Salt Water Fossils
Sulphur
Tepraloxydim
Tetrachlorvinphos
Triethanolamine salts of fatty acids

Active Ingredient
2021-2022
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride (cis isomer)
2-(Hydroxymethyl)-2-nitro-1,3-propanediol
2,2-Dibromo-3-nitrilopropionamide
2-Methyl-4-isothiazolin-3-one
4-CPA (4-Chlorophenoxyacetic acid)
5-Chloro-2-methyl-4-isothiazolin-3-one
6-Benzylaminopurine
Aminopyralid
Available chlorine, present as calcium hypochlorite
Available chlorine, present as sodium dichloro-S-triazinetrione
Available chlorine, present as sodium hypochlorite
Available chlorine, present as trichloro-S-triazinetrione
Bacillus sphaericus
Barium metaborate monohydrate
Bis(trichloromethyl)sulfone
Brodifacoum
Bromacil
Bromadiolone
Bronopol
Carbon dioxide gas
Chlorophacinone
Cyazofamid
Dichlobenil
Diflubenzuron
Diphacinone (present in free form or as sodium salt)
Disodium cyanodithioimidocarbonate
Formic acid
Gibberellic acid
Gibberellins A4A7
Liquid carbon dioxide
Mecoprop-P (present as diglycolamine salt)
Methylene bis(thiocyanate)
Metribuzin
Nucleopolyhedrovirus for Douglas-fir tussock moth
Paraquat
Pinoxaden
Polymerized butenes
Potassium bicarbonate
Prohexadione calcium

Active Ingredient
Putrescent whole egg solids
Pyrimethanil
Sodium hypochlorite
Sodium monofluoroacetate
Spirodiclofen
Terbacil
Topramezone
Trichloro-S-triazinetrione
Triclopyr (present as butoxyethyl ester)
Verbenone
Warfarin (present in free form or as sodium salt)
2022-2023
2,2'-(1-methyltrimethylenedioxy)Bis-(4-methyl-1,3,2-dioxaborinane)
2,2-Oxybis(4,4,6-trimethyl-1,3,2-dioxaborinane)
Acifluorfen (present as sodium salt)
Agrobacterium radiobacter
Carbendazim
Carfentrazone-ethyl
Di-N-propyl isocinchomeronate
Diphenylamine
Endothal
Endothal (present as N,N-dimethylalkylamine salt)
Etridiazole
Fluvalinate-tau
Methylated seed oil of soybean
Naled
Natamycin
Neodiprion abietis Nucleopolyhedrovirus
Novaluron
Octenol
Oxadiazon
Oxyfluorfen
Pantoea agglomerans strain C9-1
Pantoea agglomerans strain E325 (NRRL B-21856)
Prothioconazole
Pyrasulfotole
Sodium chloride
Sodium cyanide
Spiromesifen
Sulfuryl fluoride